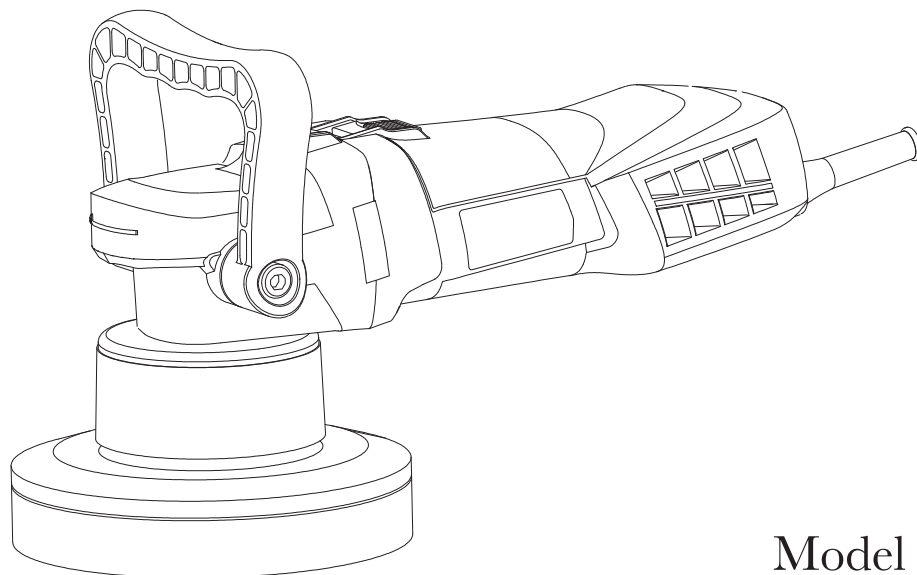




VORTEX DUAL ACTION PRO POLISHER



Go to
WENproducts.com
for replacement pads

Model # 6018
bit.ly/wenvideo

IMPORTANT:

Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for intended purpose, you will enjoy years of safe, reliable service.

NEED HELP? CONTACT US!

Have product questions? Need technical support?
Please feel free to contact us at:



800-232-1195 (M-F 8AM-5PM CST)



techsupport@wenproducts.com



WENPRODUCTS.COM



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TECHNICAL DATA

Model Number:	6018
Motor:	120 V, 60 Hz, 5 A
Rotation Speed:	1500-6800 OPM
Pad Size:	6 inches
Power cord length:	10 feet
Net Weight:	6.6 lb

GENERAL SAFETY RULES

Safety is a combination of common sense, staying alert and knowing how your item works. **SAVE THESE SAFETY INSTRUCTIONS.**



WARNING: To avoid mistakes and serious injury, do not plug in your tool until the following steps have been read and understood.

1. **READ** and become familiar with this entire instruction manual. **LEARN** the tool's applications, limitations, and possible hazards.
2. **AVOID DANGEROUS CONDITIONS.** Do not use power tools in wet or damp areas or expose them to rain. Keep work areas well lit.
3. **DO NOT** use power tools in the presence of flammable liquids or gases.
4. **ALWAYS** keep your work area clean, uncluttered, and well lit. **DO NOT** work on floor surfaces that are slippery with sawdust or wax.
5. **KEEP BYSTANDERS AT A SAFE DISTANCE** from the work area, especially when the tool is operating. **NEVER** allow children or pets near the tool.
6. **DO NOT FORCE THE TOOL** to do a job for which it was not designed.
7. **DRESS FOR SAFETY.** Do not wear loose clothing, gloves, neckties, or jewelry (rings, watches, etc.) when operating the tool. Inappropriate clothing and items can get caught in moving parts and draw you in. **ALWAYS** wear non-slip footwear and tie back long hair.
8. **ALWAYS** remove the power cord plug from the electrical outlet when making adjustments, changing parts, cleaning, or working on the tool.
9. **AVOID ACCIDENTAL START-UPS.** Make sure the power switch is in the **OFF** position before plugging in the power cord.
10. **REMOVE ADJUSTMENT TOOLS.** Always make sure all adjustment tools are removed from the saw before turning it on.
11. **NEVER LEAVE A RUNNING TOOL UNATTENDED.** Turn the power switch to **OFF**. Do not leave the tool until it has come to a complete stop.
12. **NEVER STAND ON A TOOL.** Serious injury could result if the tool tips or is accidentally hit. **DO NOT** store anything above or near the tool.
13. **DO NOT OVERREACH.** Keep proper footing and balance at all times. Wear oil-resistant rubber-soled footwear. Keep the floor clear of oil, scrap, and other debris.

GENERAL SAFETY RULES

14. **MAINTAIN TOOLS PROPERLY.** ALWAYS keep tools clean and in good working order. Follow instructions for lubricating and changing accessories.

15. **CHECK FOR DAMAGED PARTS.** Check for alignment of moving parts, jamming, breakage, improper mounting, or any other conditions that may affect the tool's operation. Any part that is damaged should be properly repaired or replaced before use.

16. **KEEP AWAY FROM CHILDREN.**

17. **DO NOT** operate the tool if you are under the influence of drugs, alcohol, or medication that may affect your ability to properly use the tool.

18. **USE SAFETY GOGGLES AT ALL TIMES** that comply with ANSI Z87.1. Normal safety glasses only have impact resistant lenses and are not designed for safety. Wear a face or dust mask when working in a dusty environment. Use ear protection such as plugs or muffs during extended periods of operation.

ELECTRICAL INFORMATION

GROUNDING INSTRUCTIONS

IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for an electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.

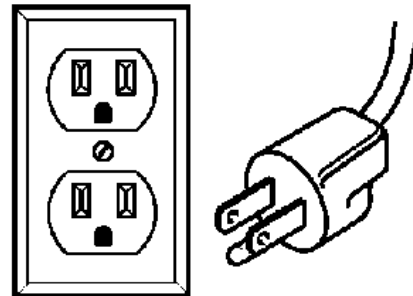
DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

IMPROPER CONNECTION of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, **DO NOT** connect the equipment grounding conductor to a live terminal.

CHECK with a licensed electrician or service personnel if you do not completely understand the grounding instructions or whether the tool is properly grounded.

USE ONLY THREE-WIRE EXTENSION CORDS that have three-pronged plugs and outlets that accept the tool's plug as shown on the right. Repair or replace a damaged or worn cord immediately.

CAUTION: In all cases, make certain the outlet in question is properly grounded. If you are not sure, have a licensed electrician check the outlet.



WARNING: Do not expose to rain or use in damp locations.

ELECTRICAL INFORMATION

Guidelines for using extension cords

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause **FIGURE A** voltage resulting in loss of power and overheating. The table below shows the correct size to be used according to cord length and nameplate ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

AMPERAGE	REQUIRED GAUGE FOR EXTENSION CORDS			
	25 ft.	50 ft.	100 ft.	150 ft.
5 A	18 gauge	16 gauge	16 gauge	14 gauge

Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

Protect your extension cords from sharp objects, excessive heat and damp/wet areas.

Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

WARNING: This tool must be grounded while in use to protect the operator from electric shock.

KNOW YOUR VORTEX



Unpack the polisher and all its parts, and compare against the list below. Do not discard the carton or any packaging until the polisher is completely assembled.



ASSEMBLY AND ADJUSTMENTS

VELCRO BASE PAD INSTALLATION/REMOVAL

1. Unplug the polisher from the power source. Failure to do so may result in the tool accidentally starting-up, creating the risk of serious personal injury.

2. Take off the rubber cap from the Velcro base pad.

3. Place the polisher on a flat, stable surface with the threaded spindle facing upwards. Position the open-ended wrench around the bolt on the spindle as seen in the picture to the right.



4. Place the Velcro base pad's screw into the spindle with the Velcro face up. Make sure that the spacer is still on the screw of the base pad before attaching the pad to the polisher's body. Screw on the Velcro base pad by rotating it in a clockwise direction while using the wrench to hold the spindle still. Continue to rotate the Velcro base pad clockwise until the pad feels firmly locked in place.

5. To remove the Velcro base pad, be sure the tool is unplugged from the power source, lock the spindle with the wrench and perform the installation procedure in reverse order with counterclockwise rotation.

POLISHING PAD INSTALLATION/REMOVAL

1. Unplug the polisher. Make sure the Velcro base pad is correctly fastened as outlined above.

2. Inspect the Velcro base pad and clean off all dirt and debris.

3. Align the polishing pad over the Velcro base pad. With the pad aligned, push down on the Polishing pad to secure it down. Smooth the polishing pad out, sticking it evenly to the entire pad.

4. To remove the Polishing pad, pull it off the Velcro base pad.

INSTALLING THE D-HANDLE

Unplug the polisher from the power source. Using the two bolts provided, install the D-handle on the machine. There are two positions to choose from, as shown below. Make sure the D-handle is secure to prevent any accidents during operation.



ASSEMBLY AND ADJUSTMENTS

INSTALLING THE SIDE HANDLE

A side handle is included with your polisher for easy tool handling and to help maximize tool control during operation. The gear housing design allows for mounting of the side handle on either side of the D-handle.

To install the side handle, unscrew the D-handle bolt on the side where you want to put the side handle. Screw the handle securely into the threaded hole on the D-handle where the bolt used to be.

CHANGING THE CARBON BRUSHES

- 1) Remove the housing of the polisher by unscrewing the three screws on the back right-hand side of the polisher's body. Find the two carbon brushes under a clip at the top of either side of the polisher with a copper wire running from them. (Figure A)
- 2) Remove the small clip holding the carbon brush in place (Figure B)
- 3) Slide the carbon brush out of the casing. Unclip the copper wire from the mount on the opposing end of the carbon brush (Figure C). It may be fairly tight and take a little force.
- 4) Replace the carbon brush with the new carbon brush. Slide the copper wire's clamp back onto the casing. This may require something to help push the clamp into place if too tight. Slide the carbon brush's body back into its housing. Replace the clip.
- 5) Repeat for the carbon brush on the opposite side of the polisher if necessary.



FIGURE A



FIGURE B



FIGURE C

OPERATION

Always be sure the polisher is switched off and unplugged before assembling parts, making adjustments, assembling or replacing the Velcro base pad, assembling or replacing the polishing pad, or checking the functionality of the polisher.

ON/OFF SWITCH

Push the on/off switch forward as the arrow of “I” position shown to start the polisher. Push the switch backward as the arrow of “O” position shown to stop the polisher.

SPEED DIAL

The speed increases as you turn the speed dial towards the higher numbers and decreases towards the lower numbers. Thumbwheel position 1 provides the slowest operating speed and position 6 provides the fastest. Speed may be changed while motor is running or while it is stopped (polishing operations work best on settings between position 4-6).

SPEED DIAL	SPEED RANGE	OPERATION
1 to 2	1500 to 1750 OPM	Finishing and Detailing
2 to 3	1750 to 3250 OPM	Compounding and Waxing
3 to 5	3250 to 5000 OPM	Polishing and Buffing
5 to 6	5000 to 6800 OPM	Heavy Correction Work

A FEW TIPS ON WAXING AND POLISHING A CAR

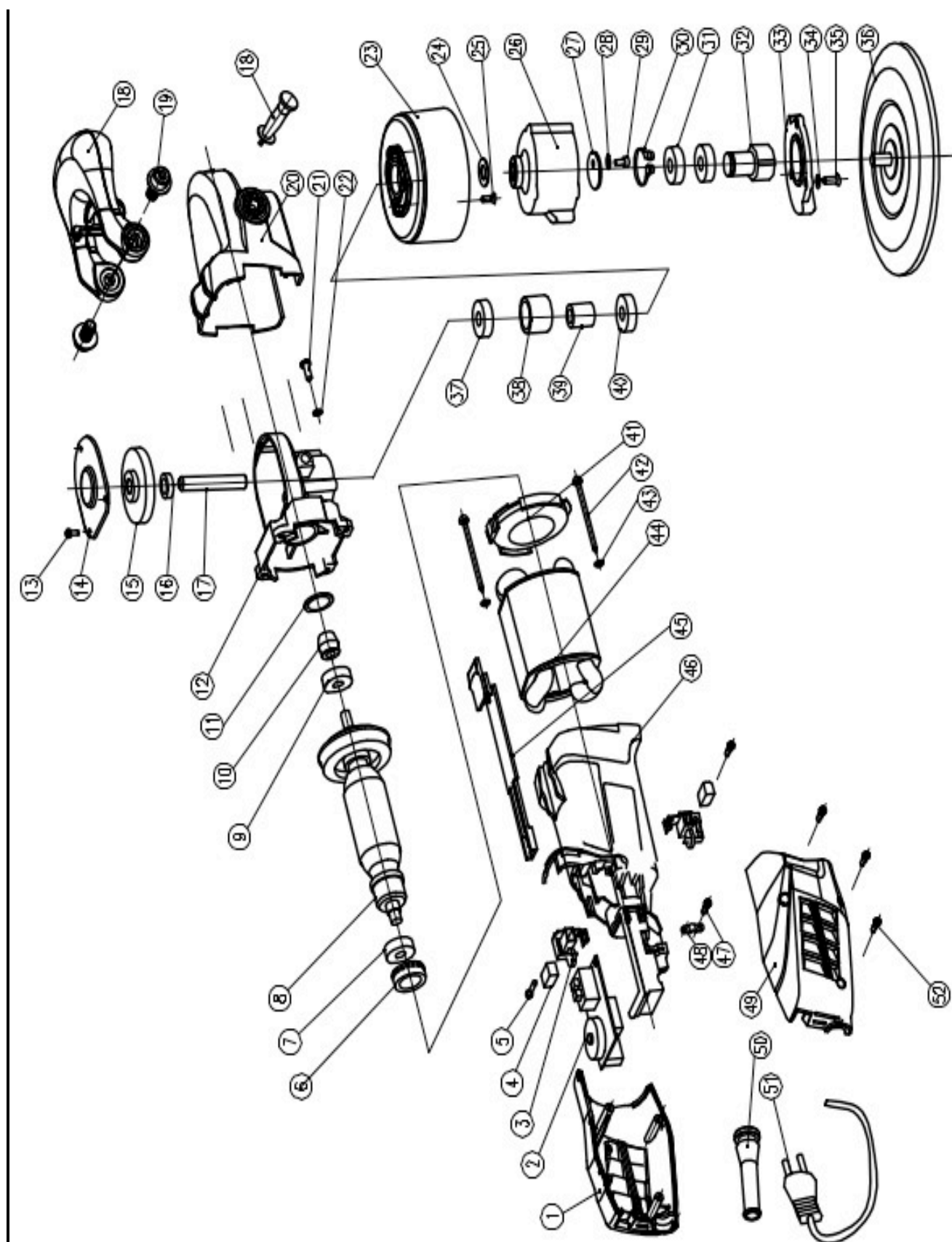
Before applying any wax or compounding solution, make sure to wash the vehicle with soap and water. Remove all dirt and bug residue from the surface and then dry completely with a clean microfiber towel. Use polishing clay after cleaning if you want to give the extra 10 percent. Mask off areas such as handles, mirrors, bumpers, molding and decals to combat possible damage from the polisher. Attach a clean polishing pad to your WEN Vortex. Try to keep the pad dry, otherwise waxing and application will become increasingly difficult.

For all car care products, apply a thin layer of solution (probably a few drops depending on the product) to a clean polishing pad and place the pad onto the surface of the car. Smear the solution around a little on the pad using the surface of the car to prevent splattering. Then, while the polishing pad is pressed against the car's surface, turn on the Vortex. Apply all solutions to a two by two foot area before moving on to the next two by two foot area of the car. It is recommended to not compound and wax in direct sunlight; use a shaded area or a garage if possible. Read the instructions on your bottles of wax and compound to ensure that these are the right directions, as suggested application changes slightly depending on the product.

First, apply the compounding solution first. Compounds fight oxidation and scratches in the clear coat of the car. Keep in mind that any scratches that can be felt with your fingernails are probably past repair by a compound, as they go deeper than the top clear coat. Using moderate pressure spread the compound over the surface of the car. While the compound is still wet, remove with a clean, dry microfiber towel.

Next, repeat using a polishing solution to get the car really shining. After that, repeat with a car wax for surface protection and additional gloss. If done correctly, water droplets will form tiny beads on the surface of the car's finish. Feel free to try out different things and figure out a personal style that works best for you and your vehicle.

EXPLODED VIEW AND PARTS LIST



EXPLODED VIEW AND PARTS LIST

No.	Stock #	Description	Qty
1	4210-001	Column tube	1
2	4210-002	Rack	1
3	4210-003	Support column	1
4	4210-004	Base	8
5	4210-005	Hex head screw	1
6	4210-006	Crank handle	1
7	4210-007	Gear pin	1
8	4210-008	Hex head screw	1
9	4210-009	Table	1
10	4210-010	Table support	1
11	4210-011	Column clamp	1
12	4210-012	Gear helical	1
13	4210-013	Worm shaft	1
14	4210-014	Rack collar	1
15	4210-015	Hex socket screw	1
16	4210-016	Ball bearing	1
17	4210-017	Spindle	1
18	4210-018	Chuck	1
19	4210-019	Chuck key	1
20	4210-020	Quill tube	1
21	4210-021	Quill gasket	1
22	4210-022	Retaining ring	1
23	4210-023	Head	1
24	4210-024	Motor	1
25	4210-025	Hex nut	4
26	4210-026	Washer	8
27	4210-027	Motor cord	1
28	4210-028	Hex nut	2
29	4210-029	Lock washer	2
30	4210-030	Motor mount	1
31	4210-031	Motor support	2
32	4210-032	Roll pin	2
33	4210-033	Motor adjust knob	3
34	4210-034	Hex socket screw	2
35	4210-035	Ball bearing	1
36	4210-036	Depth stop ring	1
37	4210-037	Knob	3
38	4210-038	Rod	3
39	4210-039	Hub	1
40	4210-040	Shaft pinion	1
41	4210-041	Pin stop	1
42	4210-042	Screw	3

No.	Stock #	Description	Qty
43	4210-043	Lock washer	2
44	4210-044	Screw	2
45	4210-045	Pan cross screw	2
46	4210-046	Switch plate cover	1
47	4210-047	Rocker switch	1
48	4210-048	Lock switch	1
49	4210-049	Switch key	1
50	4210-050	Switch box	1
51	4210-051	Socket set screw	1
52	4210-052	Hex nut	1
53	4210-053	Hex nut	2
54	4210-054	Spring cap	1
55	4210-055	Spring	1
56	4210-056	Retaining spring	1
57	4210-057	Power cord	1
58	4210-058	Hex wrench	1
59	4210-059	Hex wrench	1
60	4210-060	Knob	1
61	4210-061	Pulley spindle	1
62	4210-062	Guard	1
63	4210-063	Washer screw	4
64	4210-064	Bushing rubber	2
65	4210-065	Retaining ring	1
66	4210-066	Ball bearing	2
67	4210-067	Spacer	1
68	4210-068	Pulley insert	1
69	4210-069	Pulley spindle	1
70	4210-070	V-belt	1
71	4210-071	Cord clamp	2
72	4210-072	Screw	3
73	4210-073	Foam washer	4
74	4210-074	Screw	1
75	4210-075	Screw	2
76	4210-076	Bulb socket bracket	1
77	4210-077	Retaining ring	1
78	4210-078	Hex nut	3
79	4210-079	Light	1
80	4210-080	Tie wire	3
81	4210-081	Laser battery box	1
82	4210-082	Pan cross Screw	2
83	4210-083	Hex socket screw	2
84	4210-084	Laser	2

LIMITED TWO YEAR WARRANTY

WEN Products is committed to building tools that are dependable for years. Our warranties are consistent with this commitment and our dedication to quality.

LIMITED WARRANTY OF WEN CONSUMER POWER TOOLS PRODUCTS FOR HOME USE

GREAT LAKES TECHNOLOGIES, LLC (“Seller”) warrants to the original purchaser only, that all WEN consumer power tools will be free from defects in material or workmanship for a period of two (2) years from date of purchase. Ninety days for all WEN products, if the tool is used for professional use.

SELLER’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must return the complete power tool product; transportation prepaid, to Great Lakes Technologies, LLC – 1675 Holmes Road – Elgin, IL. 60123 with a copy of the original receipt which is legible and clearly defines Date of Purchase including month and year and Place of Purchase.

THIS LIMITED WARRANTY DOES NOT APPLY TO ACCESSORY ITEMS SUCH AS CIRCULAR SAW BLADES, DRILL BITS, ROUTER BITS, JIGSAW BLADES, SANDING BELTS, GRINDING WHEELS AND OTHER RELATED ITEMS.

ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO TWO (2) YEARS FROM DATE OF PURCHASE. SOME STATES IN THE U.S., SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LIABILITY FOR LOSS OF PROFITS) ARISING FROM THE SALE OR USE OF THIS PRODUCT. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE IN THE U.S., PROVINCE TO PROVINCE IN CANADA AND FROM COUNTRY TO COUNTRY.

THIS LIMITED WARRANTY APPLIES ONLY TO PORTABLE ELECTRIC TOOLS, BENCH POWER TOOLS, OUTDOOR POWER EQUIPMENT AND PNEUMATIC TOOLS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT THE WEN CUSTOMER SUPPORT LINE.